

**WHAT IS CLAIMED IS:**

1. An in-vehicle apparatus controlling system, comprising:

an in-vehicle controlling apparatus for controlling an in-vehicle apparatus, said  
5 in-vehicle controlling apparatus being provided in an automotive vehicle; and

memory media having user identification information stored therein; said user  
identification information being partially constituted by biometric information indicative of  
a person demanding permission to utilize said in-vehicle apparatus, wherein

said in-vehicle controlling apparatus includes: biometric information obtaining  
10 means for obtaining biometric information indicative of said person demanding permission  
to utilize said in-vehicle apparatus; storing means for storing user identification information  
which is partially constituted by biometric information indicative of a registered user having  
permission to utilize said automotive vehicle; identifying means for judging whether or not  
said person is identical to said registered user having permission to utilize said automotive  
15 vehicle by establishing the verification of said biometric information obtained by said  
biometric information obtaining means with respect to said biometric information stored by  
said storing means; controlling means for controlling said in-vehicle apparatus on the basis  
of the judgment made by said identifying means; and reading means for receiving said user  
identification information from said memory media, said identifying means being adapted to  
20 judge whether or not said person is identical to said registered user having permission to  
utilize said automotive vehicle by establishing the verification of said biometric information  
received by said reading means with respect to said biometric information stored in said  
memory media when the verification of said biometric information obtained by said  
biometric information obtaining means with respect to said biometric information stored by  
25 said storing means is not normally established by said identifying means.

2. An in-vehicle apparatus controlling system as set forth in claim 1, in which said  
biometric information obtaining means is constituted by a camera unit for taking an image  
indicative of the face of said person demanding permission to utilize said in-vehicle  
30 apparatus, and obtaining, as said biometric information, image information indicative of  
said face of said person demanding permission to utilize said in-vehicle apparatus.

3. An in-vehicle apparatus controlling system as set forth in claim 1 or claim 2, in  
which

35 said memory media is constituted by an electronic license card, and  
said biometric information obtaining means is adapted to obtain said biometric

information from said electronic license card.

4. An in-vehicle apparatus controlling system as set forth in claim 1 or claim 2, in which

5 said memory media is constituted by a non-contact type electronic license card, and said biometric information obtaining means is adapted to obtain said biometric information from said non-contact type electronic license card.

5. An in-vehicle apparatus controlling system as set forth in any one of claims 1 to 4, in which

10 said in-vehicle apparatus is constituted by a door lock controlling apparatus provided in said automotive vehicle, and

said controlling means is adapted to control said door lock controlling apparatus on the basis of the judgment made by said identifying means.

6. An in-vehicle apparatus controlling system as set forth in any one of claims 1 to 4, in which

15 said in-vehicle apparatus is constituted by an engine starting apparatus provided in said automotive vehicle, and

20 said controlling means is adapted to control said engine starting apparatus on the basis of the judgment made by said identifying means.

7. An in-vehicle apparatus controlling system as set forth in any one of claims 1 to 4, in which

25 said in-vehicle apparatus is constituted by a telephone provided in said automotive vehicle, and

said controlling means is adapted to control said telephone on the basis of the judgment made by said identifying means.

8. An in-vehicle apparatus controlling system as set forth in any one of claims 1 to 4, in which

30 said in-vehicle apparatus is constituted by an audio apparatus provided in said automotive vehicle, and

35 said controlling means is adapted to control said audio apparatus on the basis of the judgment made by said identifying means.

9. An in-vehicle apparatus controlling system as set forth in any one of claims 1 to 4, in which

said in-vehicle apparatus is constituted by an automotive instrument panel provided in said automotive vehicle, and

5 said controlling means is adapted to control said automotive instrument panel on the basis of the judgment made by said identifying means.

10. An in-vehicle apparatus controlling system as set forth in any one of claims 1 to 4, in which

10 said in-vehicle apparatus is constituted by an emergency call apparatus provided in said automotive vehicle, and

said controlling means is adapted to control said emergency call apparatus on the basis of the judgment made by said identifying means.

15 11. An in-vehicle apparatus controlling system as set forth in any one of claims 1 to 4, in which

said in-vehicle apparatus is constituted by a vehicle-to-roadside communication apparatus provided in said automotive vehicle, and

20 said controlling means is adapted to control said vehicle-to-roadside communication apparatus on the basis of the judgment made by said identifying means.

12. An in-vehicle apparatus controlling system, comprising:

an in-vehicle controlling apparatus for controlling an in-vehicle apparatus;

25 memory media having stored therein user identification information indicative of a person demanding permission to utilize said in-vehicle apparatus; and

a mobile apparatus for performing communication with said in-vehicle controlling apparatus, wherein

30 said mobile apparatus includes: reading means for receiving said user identification information from said memory media; storing means for storing user identification information indicative of a registered user having permission to utilize said automotive vehicle; identifying means for judging whether or not said person is identical to said registered user having permission to utilize said automotive vehicle by establishing the verification of said biometric information received by said reading means with respect to said biometric information stored by said storing means; and transmitting means for  
35 transmitting the judgment made by said identifying means to said in-vehicle controlling apparatus, and

said in-vehicle controlling apparatus includes: receiving means for receiving said judgment made by said identifying means from said mobile apparatus; and controlling means for controlling said in-vehicle apparatus on the basis of the judgment made by said identifying means.

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13. An in-vehicle apparatus controlling system, comprising:

an in-vehicle controlling apparatus for controlling an in-vehicle apparatus;

memory media having stored therein user identification information indicative of a person demanding permission to utilize said in-vehicle apparatus; and

10 a mobile apparatus for performing communication with said in-vehicle controlling apparatus, wherein

said mobile apparatus includes: reading means for receiving said user identification information from said memory media; and transmitting means for transmitting said user identification information to said in-vehicle controlling apparatus, and

15 said in-vehicle controlling apparatus includes: receiving means for receiving said user identification information from said mobile apparatus; storing means for storing user identification information indicative of a registered user having permission to utilize said automotive vehicle; identifying means for judging whether or not said person is identical to said registered user having permission to utilize said automotive vehicle by establishing the  
20 verification of said biometric information received by said reading means with respect to said biometric information stored by said storing means; and controlling means for controlling said in-vehicle apparatus on the basis of the judgment made by said identifying means.

25 14. An in-vehicle apparatus controlling system as set forth in claim 12 or claim 13, in which

said user identification information stored in said memory media is partially constituted by biometric information indicative of a person demanding permission to utilize said in-vehicle apparatus,

30 said user identification information stored by said storing means of said in-vehicle controlling apparatus is partially constituted by biometric information indicative of said registered user having permission to utilize said automotive vehicle, and

said identifying means of said in-vehicle controlling apparatus is adapted to judge whether or not said person is identical to said registered user having permission to utilize  
35 said automotive vehicle by establishing the verification of said biometric information received by said reading means with respect to said biometric information stored by said

storing means.

15. An in-vehicle apparatus controlling system as set forth in claim 14, in which  
said memory media is constituted by an electronic license card, and  
5 said reading means of said mobile apparatus is adapted to receive said user  
identification information from said electronic license card.

16. An in-vehicle apparatus controlling system as set forth in claim 14, in which  
said memory media is constituted by a non-contact type electronic license card, and  
10 said reading means of said mobile apparatus is adapted to receive said user  
identification information from said non-contact type electronic license card.

17. An in-vehicle apparatus controlling system as set forth in claim 12 or claim 13, in  
which

15 said in-vehicle apparatus is constituted by a door lock controlling apparatus  
provided in said automotive vehicle,

said controlling means of said in-vehicle controlling apparatus is adapted to control  
said door lock controlling apparatus on the basis of the judgment made by said identifying  
means.

20 18. An in-vehicle apparatus controlling system as set forth in claim 12 or claim 13, in  
which

said in-vehicle apparatus is constituted by an engine starting apparatus provided in  
said automotive vehicle,

25 said controlling means of said in-vehicle controlling apparatus is adapted to control  
said engine starting apparatus on the basis of the judgment made by said identifying means.

19. An in-vehicle apparatus controlling system as set forth in claim 12 or claim 13, in  
which

30 said in-vehicle apparatus is constituted by a telephone provided in said automotive  
vehicle,

said controlling means of said in-vehicle controlling apparatus is adapted to control  
said telephone on the basis of the judgment made by said identifying means.

35 20. An in-vehicle apparatus controlling system as set forth in claim 12 or claim 13, in  
which

said in-vehicle apparatus is constituted by an audio apparatus provided in said automotive vehicle,

said controlling means of said in-vehicle controlling apparatus is adapted to control said audio apparatus on the basis of the judgment made by said identifying means.

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21. An in-vehicle apparatus controlling system as set forth in claim 12 or claim 13, in which

said in-vehicle apparatus is constituted by an automotive instrument panel provided in said automotive vehicle,

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said controlling means of said in-vehicle controlling apparatus is adapted to control said automotive instrument panel on the basis of the judgment made by said identifying means.

22. An in-vehicle apparatus controlling system as set forth in claim 12 or claim 13, in which

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said in-vehicle apparatus is constituted by an emergency call apparatus provided in said automotive vehicle,

said controlling means of said in-vehicle controlling apparatus is adapted to control said emergency call apparatus on the basis of the judgment made by said identifying means.

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23. An in-vehicle apparatus controlling system as set forth in claim 12 or claim 13, in which

said in-vehicle apparatus is constituted by a vehicle-to-roadside communication apparatus provided in said automotive vehicle,

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said controlling means of said in-vehicle controlling apparatus is adapted to control said vehicle-to-roadside communication apparatus on the basis of the judgment made by said identifying means.

24. An in-vehicle apparatus controlling system, comprising:

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an in-vehicle controlling apparatus for controlling an in-vehicle apparatus; and a mobile apparatus which is being carried by a person demanding permission to utilize said in-vehicle apparatus, said mobile apparatus being adapted to perform communication with said in-vehicle controlling apparatus, wherein

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said mobile apparatus includes: biometric information obtaining means for obtaining biometric information indicative of said person demanding permission to utilize said in-vehicle apparatus; and transmitting means for transmitting said biometric

information obtained by said biometric information obtaining means to said in-vehicle controlling apparatus, and

5        said in-vehicle controlling apparatus includes: receiving means for receiving said biometric information from said mobile apparatus; storing means for storing user identification information partially constituted by biometric information indicative of a registered user having permission to utilize said automotive vehicle; biometric information obtaining means for obtaining biometric information indicative of said person demanding permission to utilize said in-vehicle apparatus; identifying means for judging whether or not  
10       said person is identical to said registered user having permission to utilize said automotive vehicle by establishing the verification of said biometric information obtained by said biometric information obtaining means with respect to said biometric information forming part of said user identification information stored by said storing means; and controlling means for controlling said in-vehicle apparatus on the basis of the judgment made by said identifying means, said identifying means being adapted to judge whether or not said person  
15       is identical to said registered user having permission to utilize said automotive vehicle by establishing the verification of said biometric information received by said receiving means with respect to said biometric information forming part of said user identification information stored by said storing means when the verification of said biometric information obtained by said biometric information obtaining means with respect to said  
20       biometric information forming part of said user identification information stored by said storing means is not normally established by said identifying means.

25.       An in-vehicle apparatus controlling system as set forth in claim 24, in which said biometric information obtained by said biometric information obtaining means of said  
25       in-vehicle controlling apparatus is substantially the same as said biometric information obtained by said biometric information obtaining means of said mobile apparatus.

26.       An in-vehicle apparatus controlling system as set forth in claim 24 or claim 25, in which said mobile apparatus is constituted by a cellular phone.

30       27.       An in-vehicle apparatus controlling system as set forth in any one of claims 24 to 26, in which

35              said user identification information stored by said storing means of said in-vehicle controlling apparatus includes an identification code of a mobile apparatus owned by said registered user having permission to utilize said automotive vehicle,

              said mobile apparatus, carried by said person demanding permission to utilize said

in-vehicle apparatus, further includes storing means for storing its own identification code,

said transmitting means of said mobile apparatus is adapted to transmit said biometric information obtained by said biometric information obtaining means and said identification code stored by said storing means to said in-vehicle controlling apparatus,

5 said receiving means of said in-vehicle controlling apparatus is adapted to receive said biometric information and said identification code from said mobile apparatus,

said identifying means of said in-vehicle controlling apparatus is adapted to judge that said person is identical to said registered user having permission to utilize automotive vehicle by comparing said identification code received from said mobile apparatus with said  
10 identification code stored by said storing means of said in-vehicle controlling apparatus,

said controlling means of said in-vehicle controlling apparatus is adapted to prevent said in-vehicle apparatus from being utilized by said person when the judgment is made that said identification code received from said mobile apparatus is not the same as said identification code stored by said storing means of said in-vehicle controlling apparatus,

15 said identifying means of said in-vehicle controlling apparatus is adapted to judge that said person is identical to said registered user having permission to utilize automotive vehicle by establishing the verification of said biometric information received from said mobile apparatus with respect to said biometric information forming part of said user identification information when the judgment is made that said identification code received  
20 from said mobile apparatus is the same as said identification code stored by said storing means of said in-vehicle controlling apparatus.

28. An in-vehicle apparatus controlling system as set forth in any one of claims 24 to 27, in which said user identification information stored by said storing means of said  
25 in-vehicle controlling apparatus includes biometric information indicative of said registered user having permission to unlock one or more locking apparatuses.

29. An in-vehicle apparatus controlling system as set forth in any one of claims 24 to 28, in which said locking apparatus and said in-vehicle controlling apparatus are mounted  
30 on said automotive vehicle.

30. An in-vehicle apparatus controlling system as set forth in any one of claims 24 to 29, in which

35 said biometric information obtaining means of said mobile apparatus is constituted by a camera unit for taking an image indicative of the face of said person demanding permission to utilize said in-vehicle apparatus, and obtaining, as said biometric information,



image information indicative of said face of said person demanding permission to utilize said in-vehicle apparatus,

said user identification information stored by said storing means of said in-vehicle controlling apparatus includes image information indicative of the face of said registered user having permission to utilize said automotive vehicle, and

said identifying means of said in-vehicle controlling apparatus is adapted to judge whether or not said person is identical to said registered user having permission to utilize said automotive vehicle by establishing the verification of said image information obtained by said camera unit of said mobile apparatus with respect to said image information stored by said storing means of said in-vehicle controlling apparatus.

31. An in-vehicle apparatus controlling system as set forth in any one of claims 24 to 29, in which

said biometric information obtaining means of said mobile apparatus is constituted by a microphone unit for receiving a voice of said person demanding permission to utilize said in-vehicle apparatus, and obtaining, as said biometric information, voice pattern information from said voice of said person demanding permission to utilize said in-vehicle apparatus,

said user identification information stored by said storing means of said in-vehicle controlling apparatus includes voice pattern information indicative of a voice of said registered user having permission to utilize said automotive vehicle, and

said identifying means of said in-vehicle controlling apparatus is adapted to judge whether or not said person is identical to said registered user having permission to utilize said automotive vehicle by establishing the verification of said voice pattern information obtained by said microphone unit of said mobile apparatus with respect to said voice pattern information stored by said storing means of said in-vehicle controlling apparatus.

32. An in-vehicle apparatus controlling system as set forth in any one of claims 24 to 29, in which

said biometric information obtaining means of said mobile apparatus is constituted by a fingerprint pattern sensor for detecting a fingerprint of said person demanding permission to utilize said in-vehicle apparatus, and obtaining, as said biometric information, fingerprint pattern information indicative of said fingerprint of said person demanding permission to utilize said in-vehicle apparatus,

said user identification information stored by said storing means of said in-vehicle controlling apparatus includes fingerprint pattern information indicative of a fingerprint

pattern of a registered user having permission to utilize said automotive vehicle, and

said identifying means of said in-vehicle controlling apparatus is adapted to judge whether or not said person is identical to said registered user having permission to utilize said automotive vehicle by establishing the verification of said fingerprint pattern information obtained by said fingerprint pattern sensor of said mobile apparatus with respect to said fingerprint pattern information stored by said storing means of said in-vehicle controlling apparatus.

33. An in-vehicle apparatus controlling system as set forth in any one of claims 24 to 29, in which

said biometric information obtaining means of said mobile apparatus is constituted by a camera unit for taking an image of an iris of said person demanding permission to utilize said in-vehicle apparatus, and obtaining, as said biometric information, iris pattern information indicative of said iris of said person demanding permission to utilize said in-vehicle apparatus,

said user identification information stored by said storing means of said in-vehicle controlling apparatus includes iris pattern information indicative of an iris of a registered user having permission to utilize said automotive vehicle, and

said identifying means of said in-vehicle controlling apparatus is adapted to judge whether or not said person is identical to said registered user having permission to utilize said automotive vehicle by establishing the verification of said iris pattern information obtained by said camera unit of said mobile apparatus with respect to said iris pattern information stored by said storing means of said in-vehicle controlling apparatus.

34. An in-vehicle apparatus controlling system, comprising:

an in-vehicle controlling apparatus for controlling an in-vehicle apparatus; and a mobile apparatus which is being carried by a person demanding permission to utilize said in-vehicle apparatus, wherein

said mobile apparatus includes: storing means for storing user identification information indicative of said person demanding permission to utilize said in-vehicle apparatus and personal information according to said in-vehicle apparatus; and communication means for perform communication with said in-vehicle controlling apparatus,

said in-vehicle controlling apparatus includes: communication means for perform communication with said mobile apparatus; storing means for storing user identification information indicative of a registered user having permission to utilize said automotive

vehicle; identifying means for judging whether or not said person is identical to said registered user having permission to utilize said automotive vehicle by establishing the verification of said user identification information received by said communication means with respect to said user identification information stored by said storing means; and  
5 controlling means for controlling said in-vehicle apparatus on the basis of the judgment made by said identifying means and said personal information received from said mobile apparatus.

35. An in-vehicle apparatus controlling system as set forth in claim 34, in which  
10 said personal information includes information needed for said person to utilize a telephone provided as said in-vehicle apparatus in said automotive vehicle, and  
said controlling means of said in-vehicle controlling apparatus is adapted to control said telephone on the basis of the judgment made by said identifying means and said personal information stored by said storing means.

15 36. An in-vehicle apparatus controlling system as set forth in claim 34, in which  
said personal information includes information needed for said person to utilize an audio-visual apparatus provided as said in-vehicle apparatus in said automotive vehicle, and adapted to reproduce both a sound and an image, or either said sound or said image from  
20 data stored in memory media, and  
said controlling means of said in-vehicle controlling apparatus is adapted to control said audio-visual apparatus on the basis of the judgment made by said identifying means and said personal information stored by said storing means.

25 37. An in-vehicle apparatus controlling system as set forth in claim 34, in which said personal information includes information needed for said person to drive said automotive vehicle.

30 38. An in-vehicle apparatus controlling system as set forth in claim 34, in which  
said personal information includes information indicative of the current and previous physical condition of said person demanding permission to utilize said in-vehicle apparatus,  
said in-vehicle apparatus is constituted by an emergency call apparatus provided in said automotive vehicle, and  
35 said controlling means of said in-vehicle controlling apparatus is adapted to control said emergency call apparatus on the basis of the judgment made by said identifying means

and said personal information stored by said storing means.

39. An in-vehicle apparatus controlling system as set forth in claim 34, in which  
said personal information includes information needed for said person to purchase  
5 one or more products through a vehicle-to-roadside communication apparatus provided, as  
said in-vehicle apparatus, in said automotive vehicle,

said in-vehicle apparatus is constituted by a vehicle-to-roadside communication  
apparatus provided in said automotive vehicle, and

10 said controlling means of said in-vehicle controlling apparatus is adapted to control  
said vehicle-to-roadside communication apparatus on the basis of the judgment made by  
said identifying means and said personal information stored by said storing means.

40. An in-vehicle apparatus controlling system as set forth in any one of claims 34 to  
39, in which

15 said storing means of said mobile apparatus includes driving license information  
storing unit for storing driving license information according to said person demanding  
permission to utilize said in-vehicle apparatus.

41. An in-vehicle apparatus controlling system, comprising:

20 memory media having user identification information stored therein, said user  
identification information being indicative of a registered user having permission to utilize  
said automotive vehicle;

registering and canceling means for registering user identification information  
indicative of a new user in said memory media to allow said new user to have permission to  
25 utilize said automotive vehicle, or canceling said user identification information indicative  
of said previously registered user to prevent said previously registered user from having  
permission to utilize said automotive vehicle;

30 user identification information obtaining means for obtaining user identification  
information indicative of a person demanding permission to utilize said in-vehicle  
apparatus;

identifying means for judging whether or not said person is identical to said  
registered user having permission to utilize said automotive vehicle by establishing the  
verification of said user identification information obtained by said user identification  
information obtaining means with respect to said user identification information stored in  
35 said memory media;

controlling means for controlling said in-vehicle apparatus on the basis of the

judgment made by said identifying means; and

informing means for informing about said user identification information registered or cancelled by said registering and canceling means.

5     42.     An in-vehicle apparatus controlling system as set forth in claim 41, in which  
            said user identification information includes image information indicative of the  
            face of said person demanding permission to utilize said in-vehicle apparatus,  
            said user identification information includes image information indicative of the  
            face of said registered user having permission to utilize said automotive vehicle,  
10           said user identification information obtaining means is constituted by a camera unit  
            for taking an image indicative of said person to obtain image information indicative of the  
            face of said person, and  
            said identifying means is adapted to judge whether or not said person is identical to  
            said registered user having permission to utilize said automotive vehicle by establishing the  
15           verification of said image information obtained by said camera unit with respect to said  
            image information stored in said memory media.

            43.     An in-vehicle apparatus controlling system as set forth in claim 41, in which  
            said user identification information includes voice pattern information indicative of  
20           a voice of said person demanding permission to utilize said in-vehicle apparatus,  
            said user identification information includes voice pattern information indicative of  
            a voice of said registered user having permission to utilize said automotive vehicle,  
            said user identification information obtaining means is constituted by a microphone  
            unit for receiving a voice of said person demanding permission to utilize said in-vehicle  
25           apparatus, and obtaining, as said biometric information, voice pattern information from said  
            voice of said person demanding permission to utilize said in-vehicle apparatus, and  
            said identifying means is adapted to judge whether or not said person is identical to  
            said registered user having permission to utilize said automotive vehicle by establishing the  
            verification of said voice pattern information obtained by said microphone unit with respect  
30           to said voice pattern information stored in said memory media.

            44.     An in-vehicle apparatus controlling system as set forth in claim 41, in which  
            said user identification information includes fingerprint pattern information  
            indicative of a fingerprint of said person demanding permission to utilize said in-vehicle  
35           apparatus,  
            said user identification information includes fingerprint pattern information

indicative of a fingerprint of said registered user having permission to utilize said automotive vehicle,

said user identification information obtaining means is constituted by a fingerprint pattern sensor for detecting said fingerprint of said person demanding permission to utilize said in-vehicle apparatus, and obtaining fingerprint pattern information indicative of said detected fingerprint, and

said identifying means is adapted to judge whether or not said person is identical to said registered user having permission to utilize said automotive vehicle by establishing the verification of said fingerprint pattern information obtained by said fingerprint pattern sensor with respect to said fingerprint pattern information stored in said memory media.

45. An in-vehicle apparatus controlling system as set forth in claim 41, in which said user identification information includes iris pattern information indicative of an iris of said person demanding permission to utilize said in-vehicle apparatus,

said user identification information includes iris pattern information indicative of an iris of said registered user having permission to utilize said automotive vehicle,

said user identification information obtaining means is constituted by a camera unit for taking an image indicative of said person demanding permission to utilize said in-vehicle apparatus, and obtaining iris pattern information indicative of said iris of said person, and

said identifying means is adapted to judge whether or not said person is identical to said registered user having permission to utilize said automotive vehicle by establishing the verification of said iris pattern information obtained by said camera unit with respect to said iris pattern information stored in said memory media.

46. An in-vehicle apparatus controlling system as set forth in claim 41, which further comprises an integrated circuit card having user identification information stored therein, and in which

said user identification information obtaining means is adapted to obtain said user identification information from said integrated circuit card by performing communication with said integrated circuit card.

47. An in-vehicle apparatus controlling system as set forth in claim 46, in which said integrated circuit card is constituted by an electronic license card.

48. An in-vehicle apparatus controlling system as set forth in any one of claims 41 to 47, in which said informing means is adapted to inform about said user identification

information registered or cancelled by said registering and canceling means when the judgment is made by said identifying means that said person is identical to said registered user having permission to utilize said automotive vehicle.

5     49.     An in-vehicle apparatus controlling system as set forth in any one of claims 41 to 48, which further comprises in-vehicle apparatus immobilizing means for preventing said in-vehicle apparatus from being started when the judgment is made that said person is not identical to said user having permission to utilize said automotive vehicle.

10    50.     An in-vehicle apparatus controlling system as set forth in claim 49, in which said in-vehicle apparatus includes an engine controlling apparatus for allowing an engine of the automotive vehicle to be started.

15    51.     An in-vehicle apparatus controlling system as set forth in any one of claims 41 to 50, which further comprises start signal outputting means for outputting a start signal to said user identification information obtaining means in order to have said user identification information obtaining means started, and in which  
said user identification information obtaining means is adapted to assume an active state over a predetermined period in response to said start signal.

20    52.     An in-vehicle controlling apparatus, comprising:  
biometric information obtaining means for obtaining biometric information indicative of a person demanding permission to utilize an in-vehicle apparatus;  
storing means for storing user identification information which is partially  
25 constituted by biometric information indicative of a registered user having permission to utilize an automotive vehicle;  
identifying means for judging whether or not said person is identical to said registered user having permission to utilize said automotive vehicle by establishing the verification of said biometric information obtained by said biometric information obtaining  
30 means with respect to said biometric information stored by said storing means;  
controlling means for controlling said in-vehicle apparatus on the basis of the judgment made by said identifying means; and  
reading means for receiving said user identification information from a memory media, wherein  
35 said identifying means is adapted to judge whether or not said person is identical to said registered user having permission to utilize said automotive vehicle by establishing the

verification of said biometric information received by said reading means with respect to said biometric information stored in said memory media when the verification of said biometric information obtained by said biometric information obtaining means with respect to said biometric information stored by said storing means is not normally established by said identifying means.

53. An in-vehicle controlling apparatus as set forth in claim 52, in which said biometric information obtaining means is constituted by a camera unit for taking an image indicative of the face of said person demanding permission to utilize said in-vehicle apparatus, and obtaining, as said biometric information, image information indicative of said face of said person demanding permission to utilize said in-vehicle apparatus.

54. An in-vehicle controlling apparatus as set forth in claim 52 or claim 53, in which said memory media is constituted by an electronic license card, and said biometric information obtaining means is adapted to obtain said biometric information from said electronic license card.

55. An in-vehicle controlling apparatus as set forth in claim 52 or claim 53, in which said memory media is constituted by a non-contact type electronic license card, and said biometric information obtaining means is adapted to obtain said biometric information from said non-contact type electronic license card.

56. An in-vehicle controlling apparatus as set forth in any one of claims 52 to 55, in which said in-vehicle apparatus is constituted by a door lock controlling apparatus provided in said automotive vehicle, and said controlling means is adapted to control said door lock controlling apparatus on the basis of the judgment made by said identifying means.

57. An in-vehicle controlling apparatus as set forth in any one of claims 52 to 55, in which said in-vehicle apparatus is constituted by an engine starting apparatus provided in said automotive vehicle, and said controlling means is adapted to control said engine starting apparatus on the basis of the judgment made by said identifying means.



58. An in-vehicle controlling apparatus as set forth in any one of claims 52 to 55, in which

said in-vehicle apparatus is constituted by a telephone provided in said automotive vehicle, and

5 said controlling means is adapted to control said telephone on the basis of the judgment made by said identifying means.

59. An in-vehicle controlling apparatus as set forth in any one of claims 52 to 55, in which

10 said in-vehicle apparatus is constituted by an audio apparatus provided in said automotive vehicle, and

said controlling means is adapted to control said audio apparatus on the basis of the judgment made by said identifying means.

15 60. An in-vehicle controlling apparatus as set forth in any one of claims 52 to 55, in which

said in-vehicle apparatus is constituted by an automotive instrument panel provided in said automotive vehicle, and

20 said controlling means is adapted to control said automotive instrument panel on the basis of the judgment made by said identifying means.

61. An in-vehicle controlling apparatus as set forth in any one of claims 52 to 55, in which

25 said in-vehicle apparatus is constituted by an emergency call apparatus provided in said automotive vehicle, and

said controlling means is adapted to control said emergency call apparatus on the basis of the judgment made by said identifying means.

30 62. An in-vehicle controlling apparatus as set forth in any one of claims 52 to 55, in which

said in-vehicle apparatus is constituted by a vehicle-to-roadside communication apparatus provided in said automotive vehicle, and

said controlling means is adapted to control said vehicle-to-roadside communication apparatus on the basis of the judgment made by said identifying means.

35 63. An in-vehicle controlling apparatus, comprising:

receiving means for receiving the judgment made by said identifying means from a mobile apparatus; and

controlling means for controlling an in-vehicle apparatus on the basis of the judgment made by said identifying means.

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64. An in-vehicle controlling apparatus, comprising:

receiving means for receiving user identification information from a mobile apparatus;

10 storing means for storing user identification information indicative of a registered user having permission to utilize an automotive vehicle;

identifying means for judging whether or not a person is identical to said registered user having permission to utilize said automotive vehicle by establishing the verification of said biometric information received by said reading means with respect to said biometric information stored by said storing means; and

15 controlling means for controlling an in-vehicle apparatus on the basis of the judgment made by said identifying means.

65. An in-vehicle controlling apparatus as set forth in claim 63 or claim 64, in which

20 said user identification information stored in said memory media is partially constituted by biometric information indicative of a person demanding permission to utilize said in-vehicle apparatus,

said user identification information stored by said storing means of said in-vehicle controlling apparatus is partially constituted by biometric information indicative of said registered user having permission to utilize said automotive vehicle, and

25 said identifying means of said in-vehicle controlling apparatus is adapted to judge whether or not said person is identical to said registered user having permission to utilize said automotive vehicle by establishing the verification of said biometric information received by said reading means with respect to said biometric information stored by said storing means.

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66. An in-vehicle controlling apparatus as set forth in claim 63 or claim 64, in which

said memory media is constituted by an electronic license card, and

said reading means of said mobile apparatus is adapted to receive said user identification information from said electronic license card.

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67. An in-vehicle controlling apparatus as set forth in claim 63 or claim 64, in which

said memory media is constituted by a non-contact type electronic license card, and  
said reading means of said mobile apparatus is adapted to receive said user  
identification information from said non-contact type electronic license card.

5 68. An in-vehicle controlling apparatus as set forth in claim 63 or claim 64, in which  
said in-vehicle apparatus is constituted by a door lock controlling apparatus  
provided in said automotive vehicle, and

said controlling means of said in-vehicle controlling apparatus is adapted to control  
said door lock controlling apparatus on the basis of the judgment made by said identifying  
10 means.

69. An in-vehicle controlling apparatus as set forth in claim 63 or claim 64, in which  
said in-vehicle apparatus is constituted by an engine starting apparatus provided in  
said automotive vehicle, and

15 said controlling means of said in-vehicle controlling apparatus is adapted to control  
said engine starting apparatus on the basis of the judgment made by said identifying means.

70. An in-vehicle controlling apparatus as set forth in claim 63 or claim 64, in which  
said in-vehicle apparatus is constituted by a telephone provided in said automotive  
20 vehicle, and

said controlling means of said in-vehicle controlling apparatus is adapted to control  
said telephone on the basis of the judgment made by said identifying means.

71. An in-vehicle controlling apparatus as set forth in claim 63 or claim 64, in which  
25 said in-vehicle apparatus is constituted by an audio apparatus provided in said  
automotive vehicle, and

said controlling means of said in-vehicle controlling apparatus is adapted to control  
said audio apparatus on the basis of the judgment made by said identifying means.

30 72. An in-vehicle controlling apparatus as set forth in claim 63 or claim 64, in which  
said in-vehicle apparatus is constituted by an automotive instrument panel provided  
in said automotive vehicle, and

said controlling means of said in-vehicle controlling apparatus is adapted to control  
said automotive instrument panel on the basis of the judgment made by said identifying  
35 means.

73. An in-vehicle controlling apparatus as set forth in claim 63 or claim 64, in which said in-vehicle apparatus is constituted by an emergency call apparatus provided in said automotive vehicle, and

5 said controlling means of said in-vehicle controlling apparatus is adapted to control said emergency call apparatus on the basis of the judgment made by said identifying means.

74. An in-vehicle controlling apparatus as set forth in claim 63 or claim 64, in which said in-vehicle apparatus is constituted by a vehicle-to-roadside communication apparatus provided in said automotive vehicle, and

10 said controlling means of said in-vehicle controlling apparatus is adapted to control said vehicle-to-roadside communication apparatus on the basis of the judgment made by said identifying means.

75. An in-vehicle controlling apparatus, comprising:

15 receiving means for receiving biometric information from a mobile apparatus which is being carried by a person demanding permission to utilize an in-vehicle apparatus, said biometric information being indicative of said person demanding permission to utilize said in-vehicle apparatus;

20 storing means for storing user identification information partially constituted by biometric information indicative of a registered user having permission to utilize an automotive vehicle;

biometric information obtaining means for obtaining biometric information indicative of said person demanding permission to utilize said in-vehicle apparatus;

25 identifying means for judging whether or not said person is identical to said registered user having permission to utilize said automotive vehicle by establishing the verification of said biometric information obtained by said biometric information obtaining means with respect to said biometric information forming part of said user identification information stored by said storing means; and

30 controlling means for controlling said in-vehicle apparatus on the basis of the judgment made by said identifying means, wherein

said identifying means is adapted to judge whether or not said person is identical to said registered user having permission to utilize said automotive vehicle by establishing the verification of said biometric information received by said receiving means with respect to said biometric information forming part of said user identification information stored by said storing means when the verification of said biometric information obtained by said biometric information obtaining means with respect to said biometric information forming

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part of said user identification information stored by said storing means is not normally established by said identifying means.

76. An in-vehicle controlling apparatus as set forth in claim 75, in which said biometric information obtained by said biometric information obtaining means of said in-vehicle controlling apparatus is substantially the same as said biometric information obtained by said biometric information obtaining means of said mobile apparatus.

77. An in-vehicle controlling apparatus as set forth in claim 75 or claim 76, in which said mobile apparatus is constituted by a cellular phone.

78. An in-vehicle controlling apparatus as set forth in any one of claims 75 to 77, in which

said user identification information stored by said storing means includes an identification code of a mobile apparatus which is being owned by said registered user having permission to utilize said automotive vehicle,

said mobile apparatus, carried by said person demanding permission to utilize said in-vehicle apparatus, further includes storing means for storing its own identification code,

said transmitting means of said mobile apparatus is adapted to transmit said biometric information obtained by said biometric information obtaining means and said identification code stored by said storing means to said in-vehicle controlling apparatus,

said receiving means of said in-vehicle controlling apparatus is adapted to receive said biometric information and said identification code from said mobile apparatus,

said identifying means of said in-vehicle controlling apparatus is adapted to judge that said person is identical to said registered user having permission to utilize automotive vehicle by comparing said identification code received from said mobile apparatus with said identification code stored by said storing means of said in-vehicle controlling apparatus,

said controlling means of said in-vehicle controlling apparatus is adapted to prevent said in-vehicle apparatus from being utilized by said person when the judgment is made that said identification code received from said mobile apparatus is not the same as said identification code stored by said storing means of said in-vehicle controlling apparatus,

said identifying means of said in-vehicle controlling apparatus is adapted to judge that said person is identical to said registered user having permission to utilize automotive vehicle by establishing the verification of said biometric information received from said mobile apparatus with respect to said biometric information forming part of said user identification information when the judgment is made that said identification code received

from said mobile apparatus is the same as said identification code stored by said storing means of said in-vehicle controlling apparatus.

79. An in-vehicle controlling apparatus as set forth in any one of claims 75 to 78, in which said user identification information stored by said storing means of said in-vehicle controlling apparatus includes biometric information indicative of said registered user having permission to unlock one or more locking apparatuses.

80. An in-vehicle controlling apparatus as set forth in any one of claims 75 to 79, in which said locking apparatus and said in-vehicle controlling apparatus are mounted on said automotive vehicle.

81. An in-vehicle controlling apparatus as set forth in any one of claims 75 to 80, in which

said biometric information obtaining means of said mobile apparatus is constituted by a camera unit for taking an image indicative of the face of said person demanding permission to utilize said in-vehicle apparatus, and obtaining, as said biometric information, image information indicative of said face of said person demanding permission to utilize said in-vehicle apparatus,

said user identification information stored by said storing means includes image information indicative of the face of said registered user having permission to utilize said automotive vehicle, and

said identifying means is adapted to judge whether or not said person is identical to said registered user having permission to utilize said automotive vehicle by establishing the verification of said image information obtained by said camera unit of said mobile apparatus with respect to said image information stored by said storing means.

82. An in-vehicle controlling apparatus as set forth in any one of claims 75 to 80, in which

said biometric information obtaining means of said mobile apparatus is constituted by a microphone unit for receiving a voice of said person demanding permission to utilize said in-vehicle apparatus, and obtaining, as said biometric information, voice pattern information from said voice of said person demanding permission to utilize said in-vehicle apparatus,

said user identification information stored by said storing means includes voice pattern information indicative of a voice of said registered user having permission to utilize

said automotive vehicle, and

said identifying means is adapted to judge whether or not said person is identical to said registered user having permission to utilize said automotive vehicle by establishing the verification of said voice pattern information obtained by said microphone unit of said mobile apparatus with respect to said voice pattern information stored by said storing means.

83. An in-vehicle controlling apparatus as set forth in any one of claims 24 to 29, in which

said biometric information obtaining means of said mobile apparatus is constituted by a fingerprint pattern sensor for detecting a fingerprint of said person demanding permission to utilize said in-vehicle apparatus, and obtaining, as said biometric information, fingerprint pattern information indicative of said fingerprint of said person demanding permission to utilize said in-vehicle apparatus,

said user identification information stored by said storing means includes fingerprint pattern information indicative of a fingerprint pattern of a registered user having permission to utilize said automotive vehicle, and

said identifying means is adapted to judge whether or not said person is identical to said registered user having permission to utilize said automotive vehicle by establishing the verification of said fingerprint pattern information obtained by said fingerprint pattern sensor of said mobile apparatus with respect to said fingerprint pattern information stored by said storing means.

84. An in-vehicle controlling apparatus as set forth in any one of claims 24 to 29, in which

said biometric information obtaining means of said mobile apparatus is constituted by a camera unit for taking an image of an iris of said person demanding permission to utilize said in-vehicle apparatus, and obtaining, as said biometric information, iris pattern information indicative of said iris of said person demanding permission to utilize said in-vehicle apparatus,

said user identification information stored by said storing means includes iris pattern information indicative of an iris of a registered user having permission to utilize said automotive vehicle, and

said identifying means is adapted to judge whether or not said person is identical to said registered user having permission to utilize said automotive vehicle by establishing the verification of said iris pattern information obtained by said camera unit of said mobile

apparatus with respect to said iris pattern information stored by said storing means.

85. An in-vehicle controlling apparatus, comprising:

communication means for receiving user identification information and personal  
5 information according to an in-vehicle apparatus from a mobile phone, said user  
identification information being indicative of a person demanding permission to utilize said  
in-vehicle apparatus;

storing means for storing user identification information indicative of a registered  
user having permission to utilize an automotive vehicle;

10 identifying means for judging whether or not said person is identical to said  
registered user having permission to utilize said automotive vehicle by establishing the  
verification of said user identification information received by said communication means  
with respect to said user identification information stored by said storing means; and

controlling means for controlling said in-vehicle apparatus on the basis of the  
15 judgment made by said identifying means and said personal information received from said  
mobile apparatus.

86. An in-vehicle controlling apparatus as set forth in claim 85, in which

20 said personal information includes information needed for said person to utilize a  
telephone provided as said in-vehicle apparatus in said automotive vehicle, and

said controlling means is adapted to control said telephone on the basis of the  
judgment made by said identifying means and said personal information stored by said  
storing means.

25 87. An in-vehicle controlling apparatus as set forth in claim 85, in which

said personal information includes information needed for said person to utilize an  
audio-visual apparatus provided as said in-vehicle apparatus in said automotive vehicle, said  
audio-visual apparatus being adapted to reproduce both a sound and an image, or either said  
sound or said image from data stored in memory media, and

30 said controlling means is adapted to control said audio-visual apparatus on the basis  
of the judgment made by said identifying means and said personal information stored by  
said storing means.

88. An in-vehicle controlling apparatus as set forth in claim 85, in which said personal  
35 information includes information needed for said person to drive said automotive vehicle.



89. An in-vehicle controlling apparatus as set forth in claim 85, in which  
said personal information includes information indicative of the current and  
previous physical condition of said person demanding permission to utilize said in-vehicle  
apparatus, and

5 said controlling means is adapted to control an emergency call apparatus provided  
as said in-vehicle apparatus in said automotive vehicle on the basis of the judgment made by  
said identifying means and said personal information stored by said storing means.

90. An in-vehicle controlling apparatus as set forth in claim 85, in which  
10 said personal information includes information needed for said person to purchase  
one or more products through a vehicle-to-roadside communication apparatus provided as  
said in-vehicle apparatus in said automotive vehicle;

15 said controlling means is adapted to control a vehicle-to-roadside communication  
apparatus mounted, as said in-vehicle apparatus, on said automotive vehicle on the basis of  
the judgment made by said identifying means and said personal information stored by said  
storing means.

91. An in-vehicle controlling apparatus as set forth in any one of claims 85 to 90, in  
which

20 said storing means of said mobile apparatus includes driving license information  
storing unit for storing driving license information according to said person demanding  
permission to utilize said in-vehicle apparatus.

92. An in-vehicle controlling apparatus, comprising:

25 memory media having user identification information stored therein, said user  
identification information being indicative of a registered user having permission to utilize  
said automotive vehicle;

30 registering and canceling means for registering user identification information  
indicative of a new user in said memory media to allow said new user to have permission to  
utilize said automotive vehicle, or canceling said user identification information indicative  
of said previously registered user to prevent said previously registered user from having  
permission to utilize said automotive vehicle;

35 user identification information obtaining means for obtaining user identification  
information indicative of a person demanding permission to utilize said in-vehicle  
apparatus;

identifying means for judging whether or not said person is identical to said

registered user having permission to utilize said automotive vehicle by establishing the verification of said user identification information obtained by said user identification information obtaining means with respect to said user identification information stored in said memory media;

5           controlling means for controlling said in-vehicle apparatus on the basis of the judgment made by said identifying means; and

          informing means for informing about said user identification information registered or cancelled by said registering and canceling means.

10    93.     An in-vehicle controlling apparatus as set forth in claim 92, in which  
          said user identification information includes image information indicative of the face of said person demanding permission to utilize said in-vehicle apparatus,

          said user identification information includes image information indicative of the face of said registered user having permission to utilize said automotive vehicle,

15           said user identification information obtaining means is constituted by a camera unit for taking an image indicative of said person to obtain image information indicative of the face of said person, and

          said identifying means is adapted to judge whether or not said person is identical to said registered user having permission to utilize said automotive vehicle by establishing the  
20    verification of said image information obtained by said camera unit with respect to said image information stored in said memory media.

94.     An in-vehicle controlling apparatus as set forth in claim 92, in which

25           said user identification information includes voice pattern information indicative of a voice of said person demanding permission to utilize said in-vehicle apparatus,

          said user identification information includes voice pattern information indicative of a voice of said registered user having permission to utilize said automotive vehicle,

30           said user identification information obtaining means is constituted by a microphone unit for receiving a voice of said person demanding permission to utilize said in-vehicle apparatus, and obtaining, as said biometric information, voice pattern information from said voice of said person demanding permission to utilize said in-vehicle apparatus, and

          said identifying means is adapted to judge whether or not said person is identical to said registered user having permission to utilize said automotive vehicle by establishing the verification of said voice pattern information obtained by said microphone unit with respect  
35    to said voice pattern information stored in said memory media.

95. An in-vehicle controlling apparatus as set forth in claim 92, in which  
said user identification information includes fingerprint pattern information  
indicative of a fingerprint of said person demanding permission to utilize said in-vehicle  
apparatus,

5 said user identification information includes fingerprint pattern information  
indicative of a fingerprint of said registered user having permission to utilize said  
automotive vehicle,

said user identification information obtaining means is constituted by a fingerprint  
pattern sensor for detecting said fingerprint of said person demanding permission to utilize  
10 said in-vehicle apparatus, and obtaining fingerprint pattern information indicative of said  
detected fingerprint, and

said identifying means is adapted to judge whether or not said person is identical to  
said registered user having permission to utilize said automotive vehicle by establishing the  
verification of said fingerprint pattern information obtained by said fingerprint pattern  
15 sensor with respect to said fingerprint pattern information stored in said memory media.

96. An in-vehicle controlling apparatus as set forth in claim 92, in which  
said user identification information includes iris pattern information indicative of  
an iris of said person demanding permission to utilize said in-vehicle apparatus,

20 said user identification information includes iris pattern information indicative of  
an iris of said registered user having permission to utilize said automotive vehicle,

said user identification information obtaining means is constituted by a camera unit  
for taking an image indicative of said person demanding permission to utilize said in-vehicle  
apparatus, and obtaining iris pattern information indicative of said iris of said person, and

25 said identifying means is adapted to judge whether or not said person is identical to  
said registered user having permission to utilize said automotive vehicle by establishing the  
verification of said iris pattern information obtained by said camera unit with respect to said  
iris pattern information stored in said memory media.

30 97. An in-vehicle controlling apparatus as set forth in claim 92, in which said user  
identification information obtaining means is adapted to obtain said user identification  
information from an integrated circuit card by performing communication with said  
integrated circuit card.

35 98. An in-vehicle controlling apparatus as set forth in claim 97, in which said  
integrated circuit card is constituted by an electronic license card.

99. An in-vehicle controlling apparatus as set forth in any one of claims 92 to 98, in which said informing means is adapted to inform about said user identification information registered or cancelled by said registering and canceling means when the judgment is made by said identifying means that said person is identical to said registered user having permission to utilize said automotive vehicle.

100. An in-vehicle controlling apparatus as set forth in any one of claims 92 to 99, which further comprises in-vehicle apparatus immobilizing means for prevent said in-vehicle apparatus from being started when the judgment is made that said person is not identical to said user having permission to utilize said automotive vehicle.

101. An in-vehicle controlling apparatus as set forth in claim 100, in which said in-vehicle apparatus includes an engine controlling apparatus for allowing an engine of said automotive vehicle to be started.

102. An in-vehicle controlling apparatus as set forth in any one of claims 92 to 101, which further comprises start signal outputting means for outputting a start signal to said user identification information obtaining means in order to have said user identification information obtaining means started, and in which said user identification information obtaining means is adapted to assume an active state over a predetermined period in response to said start signal.

103. An in-vehicle apparatus controlling method of controlling locks through steps of transmitting biometric information obtained by biometric information obtaining means provided in a mobile apparatus through communication means provided in said mobile apparatus, judging whether or not a person demanding permission to utilize the automotive vehicle is identical to a registered user having permission to utilize an automotive vehicle by establishing the verification of said biometric information received from said mobile apparatus with respect to biometric information previously registered by said biometric information registering means and indicative of a registered user having permission to utilize an automotive vehicle, or establishing the verification of biometric information obtained by biometric information obtaining means with respect to said biometric information previously registered by said biometric information registering means and indicative of said user having said permission to utilize said automotive vehicle.